

WHAT IS CLAIMED IS:

1. A computer program product comprising a computer usable medium having control logic therein for causing a computer to manage jitter within packets exchanged between a packet switched network and the public switched telephone network, said control logic comprising:

computer readable program code means for causing the computer to handle the traffic from a packet-switched network to a public switched telephone network; and

computer readable program code means for causing the computer to manage the jitter of said traffic, wherein the computer adjusts an adaptive buffer to regulate the flow of data packets, wherein a size of the adaptive buffer is determined based on jitter statistics comprising a jitter measurement for a message currently being processed, an average jitter of a set of received data packets and the average jitter variation of the set of received data packets.

2. A computer program product comprising a computer usable medium having control logic therein for causing a computer to manage the flow of a data packet within a set of data packets, said control logic comprising:

(a) computer readable program code means for causing the computer to receive the data packet, wherein the received data packet is the most recent data packet received within the set of data packets;

(b) computer readable program code means for causing the computer to measure a jitter for the data packet received in step (a);

(c) computer readable program code means for causing the computer to compute a jitter variation for the data packet received in step (a);

(d) computer readable program code means for causing the computer to compute an average jitter measurement for the set of data packets;

(e) computer readable program code means for causing the computer to compute an average jitter variation for the set of data packets; and

(f) computer readable program code means for causing the computer to compute a target buffer size, wherein the target buffer size is a function of the average jitter measurement and the average jitter variation.

3. A computer program product comprising a computer usable medium having control logic therein for causing a computer to calculate the size of a buffer used to manage the flow of a set of received data packets, said control logic comprising:

(a) computer readable program code means for causing the computer to establish a minimum buffer size;

(b) computer readable program code means for causing the computer to compute an average jitter measurement based on at least two received data packets;

(c) computer readable program code means for causing the computer to compute an average jitter variation measurement based on at least two received data packets; and

(d) computer readable program code means for causing the computer to determine a target buffer size based on the values determined in (a), (b) and (c).